

## INTERNATIONAL SEARCH REPORT

Application No  
PCT/DE2004/000650A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16B21/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16B F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92/09815 A (TAARUP AS MASKINFAB) 11 June 1992 (1992-06-11) the whole document	1,2,6-9
X	FR 980 814 A (M. MAURICE ARTONI) 18 May 1951 (1951-05-18) the whole document	1-5,7-9
X	US 5 606 939 A (SPATH MARK J) 4 March 1997 (1997-03-04) column 3, line 32 - column 4, line 31; figures 3-6,8	1,2,7-9
X	EP 0 682 345 A (B & W FUEL CO) 15 November 1995 (1995-11-15) the whole document	1,2,7-9
	----- -/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "Z" document member of the same patent family

Date of the actual completion of the international search

31 August 2004

Date of mailing of the international search report

07/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Comel, E

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE2004/000650

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 592 517 A (HARRIS DWIGHT E) 13 July 1971 (1971-07-13) the whole document -----	1,2,7-9
X	DE 34 14 834 A (FICHTEL & SACHS AG) 31 October 1985 (1985-10-31) the whole document -----	1,2,7-9

INTERNATIONAL SEARCH REPORT  
Information on patent family members

International Application No  
PCT/DE2004/000650

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9209815	A	11-06-1992	DK 283290 A WO 9209815 A1	30-05-1992 11-06-1992
FR 980814	A	18-05-1951	NONE	
US 5606939	A	04-03-1997	EP 0771937 A1	07-05-1997
EP 0682345	A	15-11-1995	DE 69501360 D1 DE 69501360 T2 EP 0682345 A1 ES 2112021 T3 JP 7318675 A ZA 9503648 A	12-02-1998 20-05-1998 15-11-1995 16-03-1998 08-12-1995 10-04-1996
US 3592517	A	13-07-1971	DE 2016802 A1 FR 2042987 A5 GB 1232958 A JP 51042287 B	15-10-1970 12-02-1971 26-05-1971 15-11-1976
DE 3414834	A	31-10-1985	DE 3414834 A1	31-10-1985